

d) determining Pattern Similarity Score (PaSS) and/or genome semi-distance(s) from the featuring points which were obtained in step c), and

e) comparing the PaSS and/or genome semi-distance(s) which was/were obtained in step d) to PaSS and/or genome semi-distance(s) recorded in a database to identify the organism, wherein the PaSS and/or genome semi-distance(s) recorded in the database is obtained by a method in which steps a) to d) are carried out with respect to known organisms under the same conditions as the steps a) to d) carried out on the organism to be identified, and wherein in the electrophoresis by TGGE or DGGE, a standard DNA is co-migrated with the double-stranded DNA fragments as an internal reference for providing a standard point and location of the recorded position of the featuring points is determined in relation to the featuring points of the standard DNA.

9. A method according to claim 8, wherein said standard DNA is SEQ ID NO: 1 or SEQ ID NO: 2.

10. A method according to claim 8, wherein said identification of an organism is the species identification or homology identification of an organism.

11. A method according to claim 8, wherein in step a), a material labeled with a fluorescent marker is used for said random PCR to amplify DNA fragments with a fluorescent marker and a

fluorescence labeled DNA is used as the standard DNA, and in step c), said extraction from the featuring points is carried out using a image processing using the fluorescent markers carried by the DNAs.

12. A method according to claim 11, wherein said material having the fluorescent marker is a primer or nucleotide.

13. A method according to claim 8, wherein the featuring points which are obtained in step c) are expressed by the coordinates of the temperature axis and the mobility axis in the case of temperature gradient gel electrophoresis (TGGE), and by the coordinates of the denaturant concentration axis and the mobility axis in the case of denaturant gradient gel electrophoresis (DGGE).

14. A method according to claim 8, wherein said organism is a microorganism.

REMARKS

Claims 8-14, presented hereby in place of claims 1-7, are pending.

Claims 8-14 correspond to claims 1-7, respectively, revised to address the claims objection and the §112, ¶2, rejection of record, as explained below.